

ABSTRACT OF THE DISCLOSURE

The present invention relates to novel purified  
and isolated nucleotide sequences encoding mammalian  
Ca<sup>2+</sup>/calmodulin stimulated phosphodiesterases (CaM-PDEs)  
5 and cyclic-GMP-stimulated phosphodiesterases (cGS-PDEs).  
Also provided are the corresponding recombinant  
expression products of said nucleotide sequences,  
immunological reagents specifically reactive therewith,  
and procedures for identifying compounds which modulate  
10 the enzymatic activity of such expression products.